

**Title:**

CLASSIFICATION OF REACTION  
TO FIRE PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1: 2018.

**Product Name:**

"Zenova IP"

**Report No:**

WF 509152

**Issue No:**

1

**Prepared for:**

**Zenova Ltd**  
101 Kings Road  
Brentwood  
CM14 4DR

**Date:**

5<sup>th</sup> October 2021

## 1. Introduction

This classification report defines the classification assigned to “Zenova IP” a coating system tested applied to a plasterboard substrate, in line with the procedures given in EN 13501-1: 2018.

## 2. Details of classified product

### 2.1 General

The product, “Zenova IP”, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, “Zenova IP”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		ZENOVA IP painted on plasterboard
Product reference of overall composite		“Zenova IP”
Name of manufacturer of overall composite		Zenova Ltd
Thickness of overall composite		13 mm (stated by sponsor)
Weight per unit area of overall composite		8.11kg/m <sup>2</sup> (determined by <a href="#">Warringtonfire</a> )
Coating (test face)	Generic type	Water-based insulation paint consisting of a mixture of polymers, dispersants and organic compounds
	Product reference	“Zenova IP”
	Name of manufacturer	Zenova Ltd
	Colour reference	“White”
	Number of coats	One
	Application rate	<b>See Note 1 below</b>
	Thickness	0.5mm
	Specific gravity	<b>See Note 1 below</b>
	Application method	Spray gun
	Curing process per coat	2 hours per coat under controlled temperature max 24 hrs
Flame retardant details		<b>See Note 2 below</b>
Substrate	Generic type	Gypsum plasterboard
	Product reference	“010156”
	Name of manufacturer	<b>See Note 3 below</b>
	Thickness	12.5mm
	Density	640kg/m <sup>3</sup>
Flame retardant details		<b>See Note 2 below</b>
Brief description of manufacturing process		<b>See Note 1 below</b>

**Note 1:** The sponsor of the test was unwilling to provide this information.

**Note 2:** The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

**Note 3:** The sponsor has provided this information and at the specific request of the sponsor, it is held on the confidential file relating to this investigation.

### 3. Test reports & test results in support of classification

#### 3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warringtonfire	Zenova Ltd	WF 504283	EN ISO 11925-2: 2020
Warringtonfire	Zenova Ltd	WF 504282	EN 13823: 2020

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F <sub>s</sub>	6	-	Compliant Nil mm
	Flaming droplets/ particles		-	Compliant
EN ISO 11925-2 (30s exposure - edge)	F <sub>s</sub>	6	-	Compliant Nil mm
	Flaming droplets/ particles		-	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	75 W/s	-
	FIGRA <sub>0.4MJ</sub>		20 W/s	-
	THR <sub>600s</sub>		1.0 MJ	-
	LFS		-	Compliant
	SMOGRA		0 m <sup>2</sup> s <sup>2</sup>	-
	TSP <sub>600s</sub>		22 m <sup>2</sup>	-
	Fall of Flaming Droplet/Particle?		-	Compliant
	Flaming of Fallen Particle Exceeding 10s?		-	Compliant

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1: 2018.

### 4.2 Classification

The product, "Zenova IP" a coating system tested applied to a plasterboard substrate, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

The additional classification in relation to flaming droplets / particles is:

**d0**

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

i.e. **B – s1 , d0**

**Reaction to fire classification: B – s1 , d0**

### 4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications used over any substrate with a density equal to or greater than 525kg/m<sup>3</sup>, having a minimum thickness of 12mm and a fire performance of A2-s1,d0 or better.

This classification is also valid for the following product parameters:

Coating thickness	No variation allowed
Coating weight per unit area	No variation allowed
Coating colour	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

## 5. Limitations

This document does not represent type approval or certification of the product.

### SIGNED



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### Stacey Deeming

Principal Engineer  
Technical Department

### APPROVED



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### Matthew Dale

Principal Certification Engineer  
Technical Department  
on behalf of [Warringtonfire](#)

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